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READ ALL DIRECTIONS! Failure to show ALL WORK and follow all directions COMPLETELY will result in LaSalle.

The Pantheon in Rome, Italy

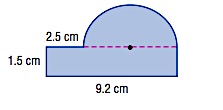
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| --- | --- | --- |
| C:\Users\kramos\Dropbox\Math Materials - KMR\Images\pantheon.jpg  43.3 m | The picture at the left shows the ceiling of the Pantheon in Rome, Italy built between 181-128 AD. The Pantheon is known for the majestic circular ceiling that has a diameter of 43.3 m. Find the Area of the circular part of the Pantheon’s ceiling. | |
| 1. A circular object has an area of approximately32 square inches. Determine the circumference of the circle. |  | 3. The figure shows two semi-circles, determine the area of the shaded region. |
| C:\Users\kramos\Dropbox\Math Materials - KMR\Images\floorplan_pantheon.jpg4  C = 16π m |  | The picture to the left shows the floor plan of the Pantheon. Find the radius of the circular section of the floor if the circumference is 16π m. |

5. A new racetrack is being designed and will be composed of a long rectangle with a semi-circle on each of the shorter sides as shown in the diagram below. All measurements are given in yards. What is the area of the racetrack?

75

20

6. Find the area of the following figure:



7. A circular object has a circumference of approximately 45 meters. Determine the area of the circle.